# GRAVELLY SANDY LOAM RANGE SITE DESCRIPTION PE 38-48

Land Reso	urce Ar	ea C	entral Basin	
Location	Llano,	Mason,	Fredericksburg,	Brady
Date	1-5-87			

1. TOPOGRAPHY AND ELEVATION: This site occurs on nearly level to gently undulating upland areas. Slopes are generally 0 to 5 percent. Elevations are 1000 to 1500 feet.

## 2. SOILS:

- a. This site consists of gravelly sandy loam soils, containing weathered granite gravels. These soils are slowly permeable and are underlain by weathered granite below 40 inches. Production is moderate due to a moderate water storage capacity and a medium fertility. These soils warm up early permitting early spring growth.
- b. Soil taxonomic units which characterize this site are:

Voca gravelly sandy loam

c. Specific site location:

# CLIMAX VEGETATION:

a. The climax plant community is oak savannah. The understory is dominated by tall and mid grasses such as little bluestem, sideoats grama, Arizona cottontop, pinhole bluestem, and purpletop. Annual forbs are generally present.

### RELATIVE PERCENTAGE

Grasses	85%	Woody	5%	Forbs	10%
Little bluestem Indiangrass	30% 5%	Post oak Live oak Bumelia	5%	Engelmanndaisy Sensitivebriar Velvet bundleflower	5%
Sideoats grama	20%	Delicated	J	Western indigo	]
Purpletop Arizona cottontop Canada wildrye Plains bristlegrass Green sprangletop	15%			Western ragweed Bluebonnets Indian paintbrush Croton Annuals	5%
Fringeleaf paspalum Fall witchgrass Hooded windmillgrass Hairy grama Threeawn					

- b. As retrogression occurs, mesquite, Texas persimmon, catclaw, yucca and whitebrush may form a dense canopy. As the site declines, hooded windmillgrass, grassbur, 'threeawn, western ragweed, bluebonnets, and annuals invade.
- c. Approximate total annual yield of this site in excellent condition ranges from 1500 pounds in poor years to 3500 pounds in good years of air dry vegetation per acre.
- 4. WILDLIFE NATIVE TO THE SITE: This site is used by deer, squirrel, dove, quail, and turkey. Several of the woody plants, forbs and grasses which grow on the site provide good cover, browse, mast and seeds for game birds and animals.

# 5. GUIDE TO INITIAL STOCKING RATE:

a.	Condition Class	Climax Vegetation	Ac/AU/Yearlong
	Excellent	76 - 100	11 - 16
	Good	51 - 75	14 - 18
	Fair	26 - 50	17 - 21
	Poor	0 - 25	20 - 25

b. Seeded Native and Introduced Species:

Species		Percent Stand Ac/A.U.		
	100-76	75-51	50-26	26-0
Kleingrass Old World bluestem K. R. bluestem	10 - 14 10 - 14 12 - 15	13 - 16 13 - 16 14 - 18	15 - 22 15 - 22 17 - 23	22+ 22+ 23+

Halls panicum

# RELATIVE FORAGE QUALITY OF SPECIES

#### a. Cattle

Primary Secondary Low Value Little bluestem Pinhole bluestem Texas grama Indiangrass Bristlegrass Signalgrass Arizona cottontop Texas wintergrass Hairy grama Sand lovegrass Buffalograss and Gummy lovegrass and curlymesquite tumble lovegrass Sideoats grama Purpletop Tall dropseed Annual forbs

Fringeleaf paspalum

Hooded windmillgrass

#### b. Sheep

Primary Secondary Low Value Little bluestem Indiangrass Red grama Sideoats grama Buffalograss and Texas grama curlymesquite Arizona cottontop Fringeleaf paspalum Threeawn Louisiana sagewort Hairy grama Annual forbs Engelmanndaisy Sand lovegrass Mesquite Orange zexmenia Purpletop 0ak Bush sunflower Hooded windmillgrass

#### c. Goats

Wild peach

Sagewort

Velvet bundleflower

Primary Secondary Low Value Live oak - post oak Purpletop Baccharis Bumelia Indiangrass Tumblegrass Bundleflower Sedges Annual forbs Sensitivebriar Sideoats grama Mesquite Greenbriar Arizona cottonton Red lovegrass Kidneywood Little bluestem Threeawn Bush sunflower Fringeleaf paspalum Sagewort Hooded windmillgrass Wild peach

<sup>1/</sup> See legend on separate page for definitions of interpretations made for each animal.

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Primary Secondary Low Value Yaupon Texas wintergrass Most grasses Whitebrush 0ak Baccharis Greenbriar Catclaw Ragweed Bundleflower Sedges Juniper Sensitivebriar Coneflower Mesquite Engelmanndaisy Bush sunflower Kidneywood Annual forbs

# e. Quail and Dove

Primary	Secondary	Low Value
Bundleflower Croton seed Sensitivebriar Panicum seed Paspalum seed Lovegrasses Western ragweed Canada wildrye Annual grass & weed seed	Other grass seed Tick clover Trailing ratany Woody plant seed	Most grasses Oak (acorns)

# f. Turkey

Primary	Secondary	Low Value
Grass leaves & seed Annual grass seed Canada wildrye Forb seed and leaves Woody plant seed	Coarse grass	Woody foliage

Legend and Definitions for Range Site Description.

1/ This rating system provides general guidance as to animal preference for plant species. It also indicates possible competition between kinds of animals for the various plants. Grazing preference changes from time to time and place to place depending upon the animals, upon plant palatability and nutritive value, stage of growth and season of use, relative abundance, and associated plants. Grazing preference does not necessarily reflect a plant's ecological place in the climax plant community.

The following definitions apply to cattle, sheep, goats, deer and antelope grazing.

Primary: These species generally decrease when the climax plant community is subjected to continuous heavy grazing pressure by the animals listed.

Secondary: These plants usually increase initially, then decrease when the site is subjected to continuous heavy grazing use by the animals listed.

Low Value: These plants continue to increase or invade with heavy continuous grazing use of the site.

For squirrel, peccary and birds the terms primary, secondary, and low value indicate species preference only. They do not indicate plant response to feeding pressure, nor do they have any ecological significance.

APPROVAL Signesticité D.

Den Candle 1-73-87

Field Specialist

Area Conservationist